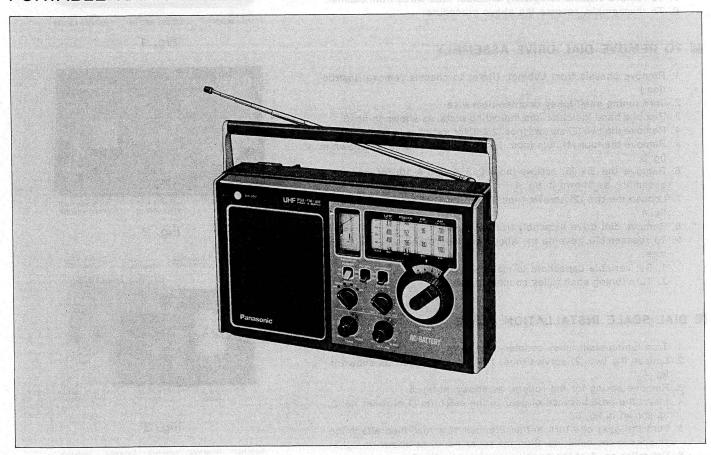
Service Manua

UHF-PSB-FM-AM 4-BAND PORTABLE RADIO

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SPECIFICATIONS

Frequency Range:

UHF 450~512 MHz

PSB 136~174 MHz

88~108 MHz

AM 525~1605 kHz FM (UHF, PSB) 10.7 MHz Intermediate Frequency:

AM 455 kHz

Sensitivity:

UHF 2μV for S/N 6 db

PSB 2µV for S/N 6 db

FM 1µV for S/N 6 db

AM 30 µV/m for 50 mW Output

AC 120V 60 Hz Power Source:

6V (Four "C" Size Flashlight

(Panasonic UM-2 or equivalent)

Power Consumption:

Speaker: Dimensions:

Weight:

Impedance:

10 cm (4") PM Dynamic Speaker

 $10\frac{13}{16}$ "(Wide) $\times 6\frac{13}{16}$ "(High) \times

7W at 120V (AC Only)

3¾''(Deep)

Batteries)

 $(273 \times 173 \times 86 \text{ mm})$

5 lb. 1 oz. (2.27 kg) with batteries

Speaker16Ω

Earphone Jack8Ω

Recording Out Jack20kΩ

Weights and dimensions shown are approximate.

(Les poids et dimensions mentionnés sont approximatifs.)

Specifications are subject to change without notice for further improvement.

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TO REMOVE CHASSIS

- 1. Open the battery cover.
- 2. Remove the six (6) screws (nos. 1~6) for the cabinet back cover, as shown in fig. 1.
- 3. Remove cabinet back cover.
- 4. Pull out sockets from chassis.
- Remove the three (3) red screws (nos. 1~3) for the chassis, as shown in fig. 2.
- 6. Unsolder lead wire (for the speaker) from chassis.
- 7. To remove chassis completely unsolder lead wires from cabinet.
- 8. To reassemble, reverse the above procedure.

TO REMOVE DIAL DRIVE ASSEMBLY

- Remove chassis from cabinet. (Refer to chassis removal instruction.)
- 2. Turn tuning shaft fulley counter-clockwise.
- 3. Remove band indicator and indicating plate, as shown in fig. 3.
- 4. Remove the two (2) screws (nos. 2 & 3) for switch, as shown in fig. 3.
- 5. Remove the four (4) nuts (nos. 1, 4, 5 & 6) for volume, as shown in fig. 3.
- 6. Remove the six (6) screws (nos. 2, 3, 4, 5, 8 & 10) for dial drive assembly, as shown in fig. 4.
- 7. Loosen the two (2) screws (nos. 7 & 9) for UHF tuner, as shown in fig. 4.
- 8. Remove dial drive assembly from chassis.
- To reassemble, reverse the above procedure and note the followings:
 - 1. Set variable capacitors to maximum capacity.
 - 2. Turn tuning shaft fulley counter-clockwise.

DIAL SCALE INSTALLATION GUIDE

- 1. Turn tuning shaft fulley counter-clockwise.
- 2. Loosen the two (2) screws (nos. 1 & 6) for the gear, as shown in fig. 4.
- 3. Remove spring for the rollers, as shown in fig. 5.
- 4. Insert the protuberance of gear in the catch no. 1 of roller no. 2, as shown in fig. 6.
- 5. Turn the gear one turn in the direction of arrow, then attach the stopper to the catch no. 2 on the roller no. 2, as shown in fig. 6.
- 6. Set roller no. 1 at the position as shown in fig. 5.
- Wind the dial scale onto the roller No. 2, and set it to the dial drive assembly.
 - 8. Set spring at the position as shown in fig. 5.
 - Hook the dial scale on the boss of the roller no. 1, as shown in fig.
 Managed And Mark the William the roller no. 1, as shown in fig.
- Confirm that the stopper of the gear should be located at the position, as shown in fig. 5.
- 11. Set start point of dial scale at the position, as shown in fig. 7.
- 12. Tighten the two (2) screws (nos. 1 & 6) for the gear, as shown in fig. 4.

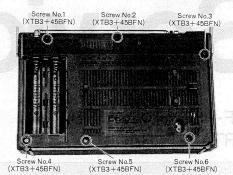
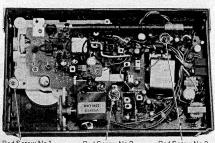


Fig. 1



Red Screw No.1 (XTN3+12CR)

Red Screw No.2 (XTN3+16CR)

Red Screw No. (XTN3+12CR

Fig. 2

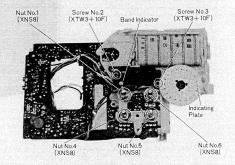


Fig. 3

 Screw No.1
 Screw No.2
 Screw No.3
 Screw No.4
 Screw No.5

 (XXAR3H6S)
 (XTW3+10F)
 (XTW3+10F)
 (XTW3+10F)
 (XTN3+10C)



 Screw No.6
 Screw No.7
 Screw No.8
 Screw No.9
 Screw No.10

 XXAR3H6S)
 (XXAR3H6S)
 (XTN3+10C)
 (XXAR3H6S)
 (XTN3+10C)

Fig. 4

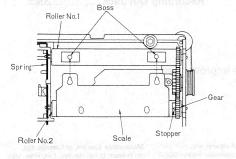


Fig. 5

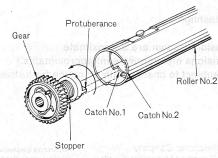


Fig. 6

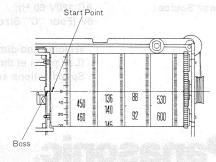


Fig. 7

■ DIAL CORD INSTALLATION GUIDE

- 1. Remove dial drive assembly. (Refer to dial assembly removal instruction.)
- 2. Remove dial drum stopper, as shown in fig. 8.
- 3. Set each dial drum at the position, as shown in fig. 8.
- 4. Insert awl into the holes for fixing dial drums, as shown in fig. 8.
- 5. Cord length is 140 cm $(55\frac{1}{8})$.
- 6. Arrows (1~13) indicate correct order and direction of cord installation.
- 7. Cement cord ends.
- 8. Mount dial drive assembly to chassis. (Refer to dial drive assembly removal instruction.)
- 9. Turn tuning shaft fulley counter-clockwise.
- 10. Mount dial drum stopper at the position, as shown in fig. 8.
- 11. Set start point of dial scale to boss of dial drive assembly. (Refer to dial scale installation guide.)

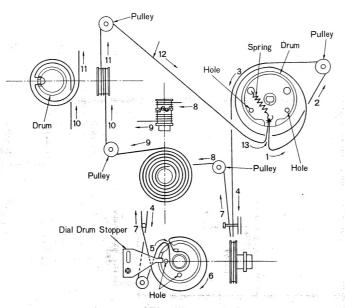


Fig. 8

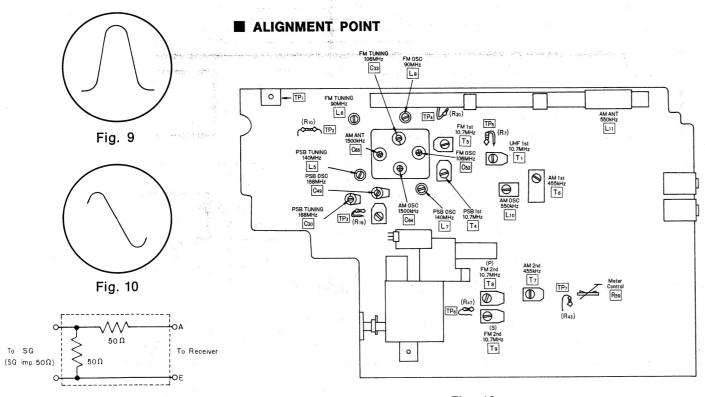


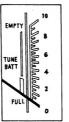
Fig. 11 FM Dummy Antenna

Fig. 12

■ TUNE/BATT METER ADJUSTMENT

- 1. RADIO RECEIVER SETTING
- · Set band switch to AM.
- · Set volume control to minimum.
- · Set power source voltage to 6 volts DC.

· Adjust R59 so that the pointer of meter stays as shown in figure at right.



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ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT Notes: 4. Set power switch to ON. 5. Set AFC switch to OFF. (FM-IF & RF). 1. Set volume control to maximum. 2. Set tone control to treble. 6. Set power source voltage to 6 volts DC. 7. Set squelch control to OFF. 3. Set band selector switch to AM, FM, PSB or UHF. SIGNAL GENERATOR or RADIO DIAL SETTING (DISTANCE) **INDICATOR** SWEEP GENERATOR **ADJUSTMENT** REMARKS (VTVM or SCOPE) CONNECTIONS **FREQUENCY** AM ALIGNMENT Fashion loop of Point of non-455 kHz Output meter T₆ (1st IFT) several turns of wire interference. Adjust for maximum 30% Mod. across (on/about 600 kHz). and radiate signal with 400 Hz. voice coil. T₇ (2nd IFT) into loop of receiver. AM-RF ALIGNMENT Adjust for maximum L10 (OSC Coil) 550 kHz output. Adjust L11 by 550 kHz (2)moving coil bobbin (Fig. 13) * 1)L11 (ANT Coil) along ferrite core. C₆₄ (OSC Adjust for maximum 1500 kHz Trimmer) 1500 kHz output. Repeat steps (2) and (3). (3) C₆₅ (ANT (Fig. 14) Trimmer) (*) Cement antenna bobbin with wax after completing alignment. FM-IF ALIGNMENT Connect vert. High side thru. Point of non-10.7 MHz (400 kHz SWP.) T₅ (FM 1st IFT) T₈ (FM 2nd IFT) (Primary) amp. of scope to point TP6 (*) Negative side to Adjust for maximum 0.001 μF to point **TP**₄ interference. amplitude. Negative side to (on/about (Refer to fig. 9). 90 MHz). earth. PSB-IF ALIGNMENT Connect vert. High side thru. $0.001 \mu F$ to point $\overline{\textbf{TP}_3}$ amp. of scope to point **TP**₆ Adjust for maximum T4 (PSB 1st IFT) amplitude. Negative side to Negative side to (Refer to fig. 9). earth. earth. **UHF-IF ALIGNMENT** Connect vert. High side thru. 0.001µF to point **TP**₅ amp. of scope to point TP6 Negative side to Adjust for maximum T₁ (UHF 1st IFT) amplitude. Negative side to (Refer to fig. 9). earth. earth. **FM-IF ALIGNMENT** Connect vert. High side thru. 0.001 µF to point TP4 amp. of scope to point **TP**6 Negative side to Adjust for maximum T₉ (FM 2nd IFT) amplitude. (Refer to fig. 10). Negative side to (Secondary) earth. **FM-RF ALIGNMENT** Connect to point TP1 through FM dummy antenna. Negative Output meter 90 MHz OSC Coil) (*) Adjust for 90 MHz across voice L₆ (FM maximum output. (Fig. 15) coil. side to earth. Tuning Coil) (Refer to fig. 11). C₅₂ (FM OSC 106 MHz (*) Adjust for Trimmer) 106 MHz (9) C33 (FM Tuning Trimmer) maximum output. (Fig. 16) **PSB-RF ALIGNMENT** L₇ (PSB OSC Coil) 140 MHz (*) Adjust for 140 MHz (10)L₅ (PSB maximum output. (Fig. 17) Tuning Coil) C₄₉ (PSB OSC 168 MHz *) Adjust for Trimmer) 168 MHz (11)C₃₀ (PSB Tuning

(Fig. 18)

* Three output responses will be present; proper tuning is the center frequency.

maximum output.

Trimmer)

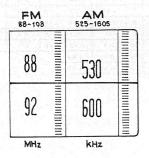


Fig. 13 (550 kHz)

FM 88~108	AM 525~1605
	1400
108	1400 1600
MHz	kHz

rig. 13 (550 km2)

	Fig.	15	(90 MHz)	
	FM 88~108		AM 525~1605	
S - 13 - 15 - 15	104		1200	
			1400	
	108		1600	
	MU-	=	bH-	القا

Fig. 16 (106 MHz)

	UHF 450-512	F	PSB HI0 136~174	H
10-111	450		136 140	
20	460 470		140	
SCALE	MHz		MHz	

Fig. 17 (140 MHz)

	UHF 450-512	136~174	3H
70-111	500	WB	
80	510	160	
90		174	
SCALE	MHz	MHz	

Fig. 18 (168 MHz)

CABINET PARTS LOCATION

Fig. 14 (1500 kHz)

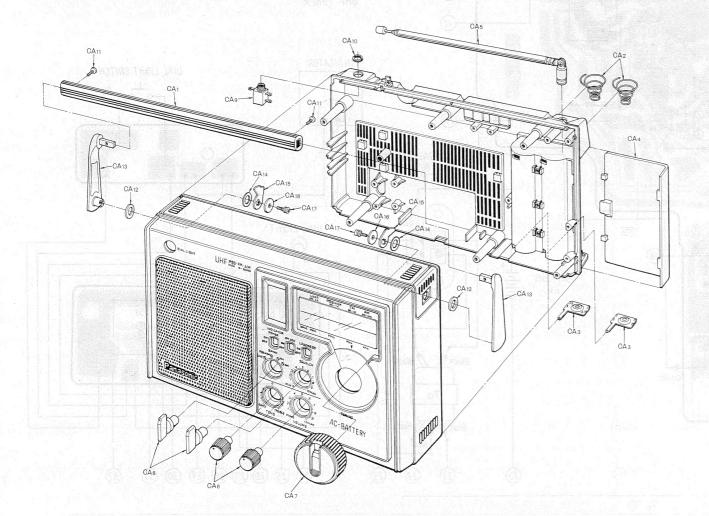


Fig. 19

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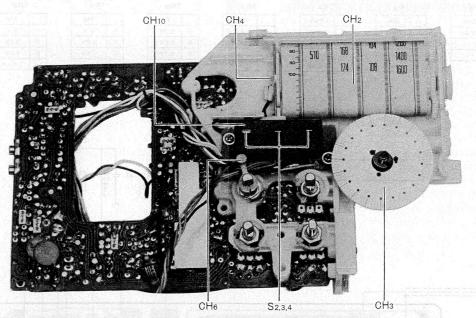


Fig. 20

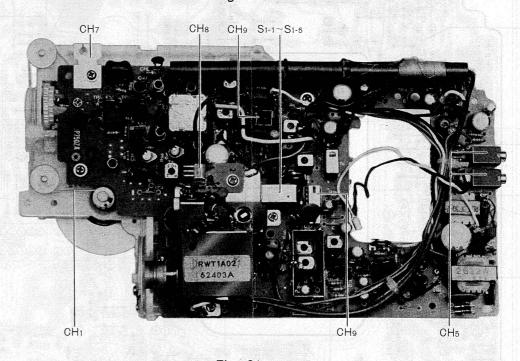
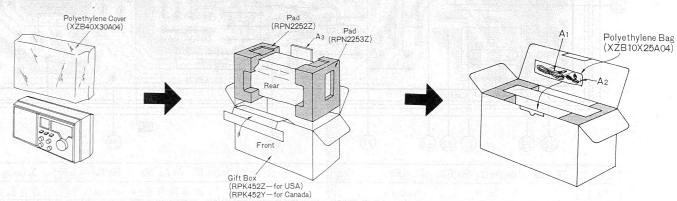


Fig. 21

PACKING MATERIALS AND ACCESSORIES



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NOTES: 1.Part numbers are indicated on most mechanical parts.

Please use this part number for parts orders.

2.Components identified by shaded area have special characteristic important for safety. When replacing any of these components use only manufacture's specified parts.

3.Part numbers shown in bold letters are service standard parts and may differ from production parts.

4. The O mark is used by the manufacturing plant only.

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
		TUNER		
	RWT1A02	UHF TUNER	1	0
	INTEGRATED	CIRCUIT, TRANSISTORS AND D	IODE	S
IC	RVIUPC1018CE	IC, FM/AM IF Amp., AM Converter	ı	
TR3,4,6,7,8	2SA838	Transistor(Ge), UHF IF Amp., PSB RF Amp., FM RF Amp.,	5	
		FM Converter, FM IF Amp.		
TR5	2SC1674	Transistor(Si), PSB Converter	1	
TR9,11	2SA564	Transistor(Ge), DC, Squelch Amp.	2	
TR10	28C828	Transistor(Si), Meter Amp.	1	
TR12.14	2SB173	Transistor(Si), AF Amp.	2	
	2SC945	Transistor(Si), AF Amp.	l ĩ l	
TR13		Transistor(Si), Power Amp.	2	
TR15,16	2SC1383	Diode (Ge), PSB AGC, PSB-FM AGC	6	
D2,4,7,10,11, 12	OA90	AM Detector & AGC, FM AGC, Rect.		
D3	RVDSD113	Diode(Si), FM AFC	1	
D5	RVDMZ204C	Diode (Si), Operation Compensator	1	0
D6.17	RVDVD1250L	Diode (Si), Operation Compensator,	2	
D0,17	ICVDVDIXOOL	Rectifier	1 1	
D8,9	2-0A90	Diode (Ge), FM Detector	1 Pair	
D8,9 D13	RVDVD1250M	Diode (Si), Operation Compensator	1	
	RVDVD1250M RVDVD1150M	Diode (Si), Operation Compensator Diode (Si), Power Operation	1	
D14	RVDVDIISOM	Compensator	-	· ·
CHECOLOG VICTORIA	RVD10BLLF	Diode(Si), Rectifier	2	
D15,16	KVDIOBERI 1	Dioue Di Revilliet		The state of the s
	CERAMIC FIL	LTERS, COILS AND TRANSFORM	MERS	i
CF1,2	RVF107MFB	Ceramic Filter	2	
L5	RLD4N35-0	Coil, PSB Tuning	1	
L6	RLD4N30	Coil. FM Tuning	1	
L7	RLO4N92-0	Oscillator Coil, PSB	1	0
L8	RLO4N54	Oscillator Coil, FM	1	
L10	RLO2M15-K	Oscillator Coil, AM	1	0
L10 L11	RLF2F151-0	Antenna Coil, AM	1	0
	RLI4M101	IFT, UHF, PSB & FM	3	
T1,4,5 T2,3	RLI4M101 RLI4M103	IFT. PSB & FM	2	

			T		
Ref. No.	Part No.	Part Name & Description	Per Set		Remarks
T7 T8 T9 T10 T11	RLI2M402 RLI4M504 RLI4M507 RLT3F30-V RLT2G22-W	IFT, AM 2nd IFT, FM 2nd(Primary) IFT, FM 2nd(Secondary) Input Transformer, P=1K\Omega: S=700\Omega Output Transformer, P=70\Omega: S=120\Omega Power Transformer	1 1 1		o
		VARIABLE RESISTORS			
R60,73 R67 R59	EVH5XA026B23 EVH5XA026D54 EVLTOAA00B23	2KΩ(B), Squelch & Tone Control 50KΩ(D), Volume Control 2KΩ(B), Preset, Meter Control	1 1 1		0
		VARIABLE CAPACITORS	-	L	
C31,34,48,51, 62,63 C30,49	RCV2X4216TL ECV1ZW10X32	Tuning Capacitor, W/Trimmer Capacitor (C33,52,64,65) Trimmer Capacitor	1 2		0
******	CO	MPONENT COMBINATIONS	1	I	
Z1 Z2 Z3	RXABPF17402I RXABPF10801H RXAF103P22HD	Component Combination, Coils & Capacitors Component Combination, Coils & Capacitors Component Combination, 0.01µF×2	1 1 1		
		SPEAKER	1	L.,	
SP	EAS10P57S	Speaker, Imp.16Ω, 10cm(4"), PM Dynamic	1		
		SWITCHES			
S1-1~S1-6 S2,3,4	RSR4F01Z-H RSTX001Z-M	Switch, Band Switch, Power, FM AFC & Loudness	1		0
-	120	RESISTORS		A	
R6 R7 R8 R9 R10	ERD25TJ470 ERD25TJ681 ERD25TJ104 ERD25TJ470 ERD25TJ103	47Ω, %Watt, ±5%, Carbon 680Ω, %Watt, ±5%, Carbon 100ΚΩ, %Watt, ±5%, Carbon 47Ω, %Watt, ±5%, Carbon 10ΚΩ, %Watt, ±5%, Carbon	1 1 1 1 1		

Ref. No.	Part No.	Part Name & Description	Per	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
R11	ERD25TJ332	3.3KΩ, %Watt, ±5%, Carbon	1		R76	ERD25TJ151	150Ω, %Watt, ±5%, Carbon	1	
R12	ERD25TJ332	3.3KΩ, %Watt, ±5%, Carbon	1		R77	ERD25TJ220	22Ω , $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
R13	ERD25TJ102	1KΩ, %Watt, ±5%, Carbon	1		R78	ERD25TJ471	470Ω, 25 Watt, ±5%, Carbon	1	
R14	ERD25TJ102	1KΩ, %Watt, ±5%, Carbon	1		R79	ERD25TJ333	33K Ω , $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
R15	ERD25TJ331	330Ω, 3 Watt, ±5%, Carbon	1		R80	ERX1ANJR47	0.47 Ω , lWatt, $\pm 5\%$, Metal	1	
R16	ERD25TJ471	470Ω, %Watt, ±5%, Carbon	1		R81	ERD25TJ473	47KΩ, 25Watt, ±5%, Carbon	1	
R17	ERD25TJ470	47Ω , $\frac{2}{6}$ Watt, $\pm 5\%$, Carbon	1		R82	ERX2ANJ100	10Ω, 2Watt, ±5%, Metal	1	
R18	ERD25TJ470	47Ω , $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	ī		R83	ERD25TJ470	47Ω , $\frac{2}{6}$ Watt, $\pm 5\%$, Carbon	1 1	
R19	ERD25TJ152	1.5K Ω , %Watt, \pm 5%, Carbon	1		R84	ERD25TJ102	$1K\Omega$, $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
R20	ERD25TJ681	680Ω , $\frac{2}{3}$ Watt, $\pm 5\%$, Carbon	ı	1	R85	ERD25TJ223	22KΩ, %Watt, ±5%, Carbon	l ī l	
R21	ERD25TJ224	220KΩ, %Watt, ±5%, Carbon	1		R86	ERD25TJ472	4.7KΩ, 2/5 Watt, ±5%, Carbon	1	
R22	ERD25TJ334	330K Ω , %Watt, \pm 5%, Carbon	1 1		R87	ERD25TJ681	680Ω , $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
R24	ERD25TJ680	68Ω , %Watt, $\pm 5\%$, Carbon	1 1		R88	ERD25TJ823	$82K\Omega$, $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
		47Ω. %Watt, ±5%, Carbon	1 1		R89	ERD25TJ122	1.2KΩ, %Watt, ±5%, Carbon	1	
R25	ERD25TJ470				R92	ERD25TJ470	47Ω , %Watt, $\pm 5\%$, Carbon	1 1	
R26	ERD25TJ104	100KΩ, %Watt, ±5%, Carbon	1	-	R94			1	
R27	ERD25TJ470	47 Ω , %Watt, $\pm 5\%$, Carbon	1	-		ERD25TJ223	22KΩ, %Watt, ±5%, Carbon	1	
R28	ERD25TJ220	22Ω , $\frac{2}{6}$ Watt, $\pm 5\%$, Carbon	1		R95	ERD25TJ472	4.7KΩ, %Watt, ±5%, Carbon	1	
R29	ERD25TJ470	47 Ω , $\frac{3}{6}$ Watt, $\pm 5\%$, Carbon	1		R96	ERD25TJ470	47Ω , %Watt, $\pm 5\%$, Carbon	1	
R30	ERD25TJ103	10KΩ, %Watt, ±5%, Carbon	1		R98	ERD25TJ471	470Ω, %Watt, ±5%, Carbon	1	
R31	ERD25TJ331	330 Ω , %Watt, \pm 5%, Carbon	1		R99	ERD25TJ680	68Ω , $\frac{2}{3}$ Watt, $\pm 5\%$, Carbon	1	
R32	ERD25TJ224	220K Ω , %Watt, ± 5 %, Carbon	1		R100	ERD25TJ470	47Ω, 3/8 Watt, ±5%, Carbon	1	
R33	ERD25TJ331	330Ω, %Watt, ±5%, Carbon	1		R101	ERD25TJ222	2.2K Ω , $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	1	
R34	ERD25TJ682	6.8KΩ, %Watt, ±5%, Carbon	1		R110	ERD25TJ390	39 Ω , %Watt, $\pm 5\%$, Carbon	1	
R35	ERD25TJ472	4.7KΩ, %Watt, ±5%, Carbon	1		R111	ERD25TJ100	10Ω , %Watt, $\pm 5\%$, Carbon	1	
R36	ERD25TJ150	15Ω, %Watt, ±5%, Carbon	1						
R37	ERD25TJ470	47Ω, %Watt, ±5%, Carbon	1	1		1			
R38	ERD25TJ103	10KΩ, 2/2 Watt, ±5%, Carbon	1 1			1		L	
R39	ERD25TJ122	1.2KΩ, %Watt, ±5%, Carbon	1 1				CAPACITORS		
R40	ERD25TJ470	47Ω , %Watt, $\pm 5\%$, Carbon	1						T
R42	ERD25TJ470	47Ω, %Watt, ±5%, Carbon	1		C19	ECQG05333MZ	0.033 µF, 50WV, ±20%, Polyester	1	
R43	ERD25TJ103	10KΩ, 25Watt, ±5%, Carbon	1		C20	ECKD1H102PF	0.001 µF, 50WV, ±100%, Ceramic	1	
R44	ERD25TJ332	3.3K Ω , $\frac{2}{6}$ Watt, $\pm 5\%$, Carbon	l ī l		C21	ECKE1H103MD	$0.01\mu\text{F}$, 50WV, $\pm 20\%$, Ceramic	1	
R45	ERD25TJ102	$1K\Omega$, $\frac{2}{5}$ Watt, $\pm 5\%$, Carbon	ī	1 1	C22	ECKD1H102PF	$0.001 \mu F$, 50WV, \pm^{100} %, Ceramic	1	1
R46	ERD25TJ102	1KΩ, %Watt, ±5%, Carbon	1	1	C23	ECKE1H103PF	0.01 uF. 50WV. ±100%. Ceramic	1	
R47	ERD25TJ102	1KΩ, %Watt, ±5%, Carbon	1		C24	ECKELH103PF	$0.01\mu\text{F}$, $50\text{WV},\pm^{100}\%$, Ceramic	1	
R48	ERD25TJ104	100KΩ, %Watt, ±5%, Carbon	l i l		C25	ECKE1H103PF	0.01 µF, 50WV, ±100%, Ceramic	1	
R49	ERD25TJ102	1KΩ, %Watt, ±5%, Carbon	1		C26	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1	
		$1K\Omega$, % Watt, $\pm 5\%$, Carbon	1		C27	ECKE1H102MD	0.001 µF, 50WV, ±20%, Ceramic	ī	
R50	ERD25TJ102	$15K\Omega$, %Watt, $\pm 5\%$, Carbon	1	1	C28	ECKD1H102PF	$0.001\mu\text{F}$, $50\text{WV},\pm^{10}\%$ %, Ceramic	ī	1
R51	ERD25TJ153		1		C29	ECKD1H102PF	$0.001\mu\text{F}$, $50\text{WV},\pm^{10}\%$, Ceramic	i	
R52	ERD25TJ223	22KΩ, ² / ₅ Watt, ±5%, Carbon			C32	ECCD1H100KC	10PF, 50WV,±10%, Ceramic	1	
R53	ERD25TJ222	2.2KΩ, %Watt, ±5%, Carbon	1 1		C35	ECCDIHIOOKC ECCDIHI80KC	18PF, 50WV,±10%, Ceramic	l i l	
R54	ERD25TJ154	150KΩ, %Watt, ±5%, Carbon	1		C36	ECCD1H160RC	4PF, 50WV,±10%, Ceramic	1	
R55	ERD25TJ222	2.2KΩ, %Watt, ±5%, Carbon	1		C37	ECCD1H3R5C	3.5PF, 50WV,±0.25PF,Ceramic	1	
R56	ERD25TJ823	82KΩ, %Watt, ±5%, Carbon	1					1	
R57	ERD25TJ221	220Ω, 2 Watt, ±5%, Carbon	1		C38	ECKELH103PF	$0.01\mu\text{F}$, $50\text{WV},\pm^{100}\%$, Ceramic	1	
R61	ERD25TJ331	330Ω, 3 Watt, ±5%, Carbon	1		C39	ECKE1H103PF	$0.01\mu\text{F}$, $50\text{WV},\pm^{100}\%$, Ceramic		
R62	ERD25TJ272	2.7K Ω , %Watt, \pm 5%, Carbon	1		C40	ECCD1H22OKC	22PF, 50WV,±10%, Ceramic	1	
R64	ERD25TJ334	330K Ω , %Watt, \pm 5%, Carbon	1		C41	ECCD1H330KC	33PF, 50WV,±10%, Ceramic	1	
R65	ERD25TJ221	220 Ω , %Watt, ± 5 %, Carbon	1		C42	ECCD1H050CC	5PF, 50WV,±0.25PF,Ceramic	1	
R66	ERD25TJ152	1.5KΩ, %Watt, ±5%, Carbon	1		C43	ECKE1H223PF	$0.022 \mu F$, $50WV, \pm^{100}\%$, Ceramic	1	
R68	ERD25TJ103	10KΩ, %Watt, ±5%, Carbon	1		C44	ECCD1H070DC	7PF, 50WV,±0.5PF, Ceramic	1	
R69	ERD25TJ223	22KΩ, 2/2 Watt, ±5%, Carbon	1		C45	ECKE1H103PF	$0.01\mu\text{F}$, $50\text{WV},\pm^{10}\%\%$, Ceramic	1	
R70	ERD25TJ824	820KΩ, 36Watt, ±5%, Carbon	1]	C46	ECCD1H120KC	12PF, 50WV,±10%, Ceramic	1	
		2.2KΩ, 2/5 Watt, ±5%, Carbon	1		C50	ECCD1H030C	3PF, 50WV,±0.25PF,Ceramic	1	
R71	ENDZSIJZZZ								. 1
R71	ERD25TJ222 ERD25TJ330		1]	C54	ECKD1H102PF	0.001 µF, 50WV, ±100%, Ceramic	1	l I
R72	ERD25TJ330	33 Ω , %Watt, $\pm 5\%$, Carbon	1		C54 C55	ECKD1H102PF ECKD1H102PF		1	
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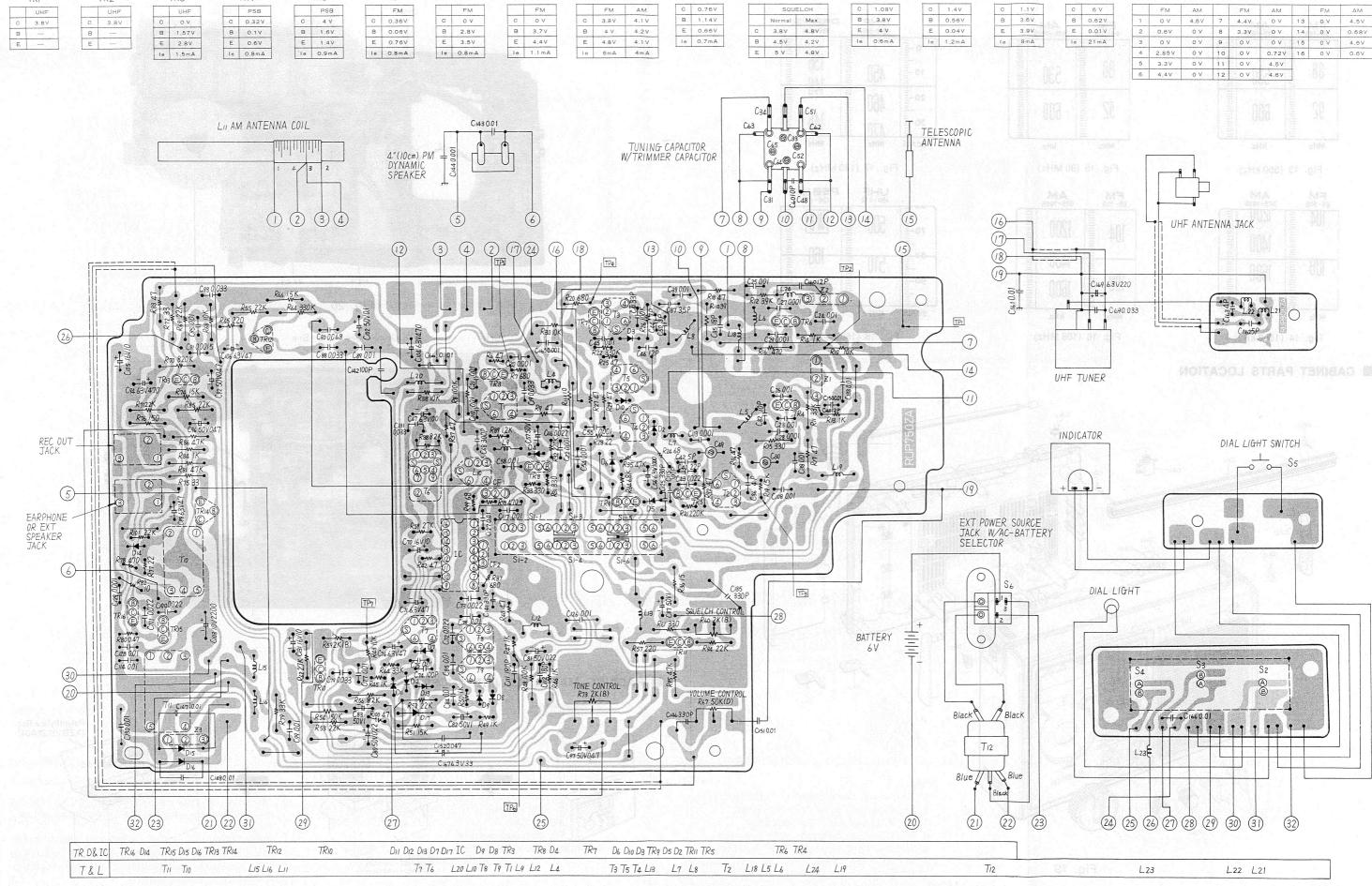
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Ref. No.	Part No.	Part Name & Description	Per Set	Remarks	Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
257	ECEA50V1B	1μF, 50WV, Electrolytic	1		C130	ECKD2H103PE	0.01 µF, 100WV, ±100%, Ceramic	1	
757 758	ECKT1H103MD	$0.01\mu\text{F}$, 50WV, $\pm 20\%$, Ceramic	1		C131	ECEA16V10	10μF, 16WV, Electrolytic	1	
60	ECCD1H100KC	10PF, 50WV,±10%, Ceramic	1		C133	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1	
66	ECKT1H103MD	$0.01\mu F$, $50WV,\pm 20\%$, Ceramic	1		C135	ECCD1H331K	330PF, 50WV, \pm 10%, Ceramic	1	
50 57	ECEA10V100	$100\mu\text{F}$, 10WV , Electrolytic	1		C140	ECQG05473MZ	$0.047\mu\text{F}$, 50WV, $\pm20\%$, Polyester	1	
	ECQS1301JZ	300PF, 125WV,±5%, Styrol	1		C141	ECCD1H331K	330PF, 50WV, ±10%, Ceramic	1	
68		$0.033 \mu F$, 50WV, $\pm 20\%$, Polyester	1 1		C142	ECCD1H101K	100PF, 50WV, ±10%, Ceramic	1	
69	ECQG05333MZ		l i		C143	ECCD1H103MD	0.01PF, 50WV,±10%, Ceramic	1	
70	ECEA16V10B				C144	ECKE1H102MD	0.001 µF, 50WV, ±20%, Ceramic	1	
71	ECEA6V47B		1 1		C145	ECCD1H331K	330PF, 50WV,±10%, Ceramic	1	
72	ECKE1H223MD	0.022 μF, 50WV,±20%, Ceramic	1		C146	ECCD1H331K	330PF, 50WV,±10%, Ceramic	1	
73	ECKE1H223MD	$0.022\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1		C147	ECKD2H103PE	0.01μ F, $100WV,\pm^{100}\%$, Ceramic	1	
74	ECCD1H101K	100PF, 50WV,±10%, Ceramic	1		C147	ECKD2H103PE	$0.01\mu\text{F}$, $100\text{WV},\pm^{10}\%\%$, Ceramic	1	
75	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1		C149	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1	
76	ECEA6V47B	47μF, 6.3WV, Electrolytic	1				$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Geramic	1	
77	ECKT1H103MD	0.01μF, 50WV,±20%, Ceramic	1 1		C150	ECKELH103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Geramic $0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1	
78	ECKELH103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1		C151	ECKE1H103MD		1	
79	ECFVD333MDY	$0.033\mu\text{F}$, 25WV , $\pm20\%$, Semi-Conductor			C152	ECQG05473MZ		1	
80	ECEA50ZR22	0.22 \mu F, 50WV, Electrolytic	1		C160	ECCD1H120KC		1 1	
31	ECEA50ZR22	0.22 µF, 50WV, Electrolytic	1		C161	ECKE1H103MD	0.01 µF, 50WV,±20%, Ceramic		1
32	ECEA50V1B	1μF, 50WV, Electrolytic	1		C162	ECCD1H050CC	5PF, 50WV,±0.25PF,Ceramic	1	1
33	ECEA50V1	1μF, 50WV, Electrolytic	1		C163	ECCD1H040C	4PF, 50WV,±0.25PF,Ceramic	1	
34	ECKE1H103MD	$0.01\mu\text{F}$, 50WV, \pm 20%, Ceramic	1,		C165	ECKD1H102MDA	0.001 µF, 50WV, ±20%, Ceramic	1	
35	ECKE1H103MD	$0.01\mu\text{F}$, 50WV, \pm 20%, Ceramic	1		C166	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1	
37	ECEA50V1B	1μF, 50WV, Electrolytic	1		C167	ECEA16V33	33μ F, 16WV, Electrolytic	1	
38	ECFTD333MDY	0.033 µF, 25WV, ±20%, Semi-Conducto	r 1		C168	ECCD1H120KC	12PF, 50WV, \pm 10%, Ceramic	1	
39	ECKE1H103MD	$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	1		C169	ECEA6V220	220μF, 6.3WV, Electrolytic	1	
90	ECKE1H682MD	0.0068 µF, 50WV, ±20%, Ceramic	1					1	
91	ECKE1H152MD	0.0015 µF, 50WV, ±20%, Ceramic	1]			l	
92	ECEA50ZR47B	0.47 µF, 50WV, Electrolytic	1				CABINET		
93	ECFVD333MDY	0.033 uF. 25WV, ±20%, Semi-Conducto	1]				1_
94	ECEA6V470	470 µF, 6.3WV, Electrolytic	1			RYMF1115M	Cabinet Assembly	1	0
95	ECKT1H103MD	0.01 µF, 50WV, ±20%, Ceramic	1 1		CA1	RKX118Z	Handle	1	0
96	ECEA50ZR47	0.47 µF, 50WV, Electrolytic	1		H	RYFF1115M	Cabinet Back Cover Assembly	1	0
97	ECEA50ZR47B	0.47 µF, 50WV, Electrolytic	1		CA2	RJC603Z	Terminal Spring, Battery	2	
	ECEA6V47B	47μF, 6.3WV, Electrolytic	1		CA3	RJC205B	Terminal, Battery 🕀 Side	2	
98		$0.01\mu\text{F}$, $50\text{WV},\pm20\%$, Ceramic	ı		CA4	RKK112Z	Cover, Battery Compartment	1	0
99	ECKT1H103MD	$0.022 \mu F$, $25WV,\pm 20\%$, Semi-Conductor			CA5	XEARR174GDSN	Telescopic Antenna, 7 Steps,	1.	0
100	ECFTD223MDY		1 1		11		1080mm		
101	ECFVD223MDY	, , , , , , , , , , , , , , , , , , , ,	1		CA6	RBN358Z	Knob, Tone & Volume	2	0
102	ECEA50ZR1B	O.1μF, 50WV, Electrolytic	1		CA7	RBN359Z	Knob, Tuning	1	0
103	ECEA10V2200	2200 μF, 10WV, Electrolytic	1		CA8	RBS106Z	Knob, Band & Squelch	2	0
104	ECEA6V470	470μF, 6.3WV, Electrolytic	1 1		II one	XTB3+45BFN	Screw, Cabinet Back Cover M'tg	6	
L05	ECEA16V10	10μF, 16WV, Electrolytic	1		CA9	RJJ10C	Jack, Loop Antenna	1	
106	ECEA6V47B	47μF, 6.3WV, Electrolytic			11023	1.0010	,		
108	ECKE1H103PF	0.01 µF, 50WV, ±100%, Ceramic	1		11				
110	ECKE1H103MD	$0.01\mu\text{F}$, 50WV, \pm 20%, Ceramic	1						
111	ECCT1H181K	180PF, 50WV,±10%, Ceramic	1				CHASSIS		
112	ECCD1H181K	180PF, 50WV, ±10%, Ceramic	1				UNASIS		
113	ECKD1H102MDA	0.001 µF, 50WV, ±20%, Ceramic	1			DADELLIEM	Dial Assembly	1	0
114	ECFVD103MDY	$0.01\mu\text{F}$, $25\text{WV},\pm20\%$, Semi-Conductor	1 1			RYDF1115M		1 Roll	
115	ECCD1H101K	100PF, 50WV, ±10%, Ceramic	1		CH1	RDZ051-1	Cord (500m), Dial	1	0
116	ECKE1H223MD	$0.022\mu\text{F}$, 50WV , $\pm20\%$, Ceramic	1		CH2	RKD403Y	Scale, Dial Spring, Dial	1	
117	ECKT1H103MD	$0.01\mu\text{F}$, 50WV, \pm 20%, Ceramic	1		l orra	RDS4062Z	Indicating Plate Assembly	1	0
125	ECCD1H331K	330PF, 50WV,±10%, Ceramic	1		CH3	RXEF1115M		1 1	
126	ECKE1H103MD	0.01 µF, 50WV, ±20%, Ceramic	1		CH4	XAMR57S150	Pilot Lamp, Dial	1 1	10
127	ECKE1H103PF	$0.01\mu\text{F}$, $50\text{WV},\pm^{100}\%$, Ceramic	1		ATRALISMO PROGRAMANTO	RSM2612Z-K	Meter, Tune & Batt.	1	CARACTER STATE
	ECFVD103MDY	0.01 µF, 25WV, ±20%, Semi-Conductor	or 1			RJJ29Z-H	Jack, AC IN Jack, Earphone & Rec. Out	2	
128	I DIOL A DICOMIDI	$0.001\mu\text{F}$, $50\text{WV},\pm^{100}\%$, Ceramic			CH5	RJJ87Y-C			

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Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
СН6	RUV321Y XSN26+6 XYN26+C5 RGX769Z	Cover, AG Jack Screw, Tuning Capacitor Screw, Tuner M'tg Indicator, Band	2 3 1	0
	-	ACCESSORIES		
A1 A2 A3 A3	RJA22A RJA22B XEH1A1-P RSA904Z UM-2DE-(P) RQX6023Z RQX6024Z	Power Cord, AC (For U.S.A.), Power Cord, AC (For Canada), Magnetic Earphone UHF Antenna Battery Instruction Book, For U.S.A. Instruction Book, For Canada	1 1 4 1 1	
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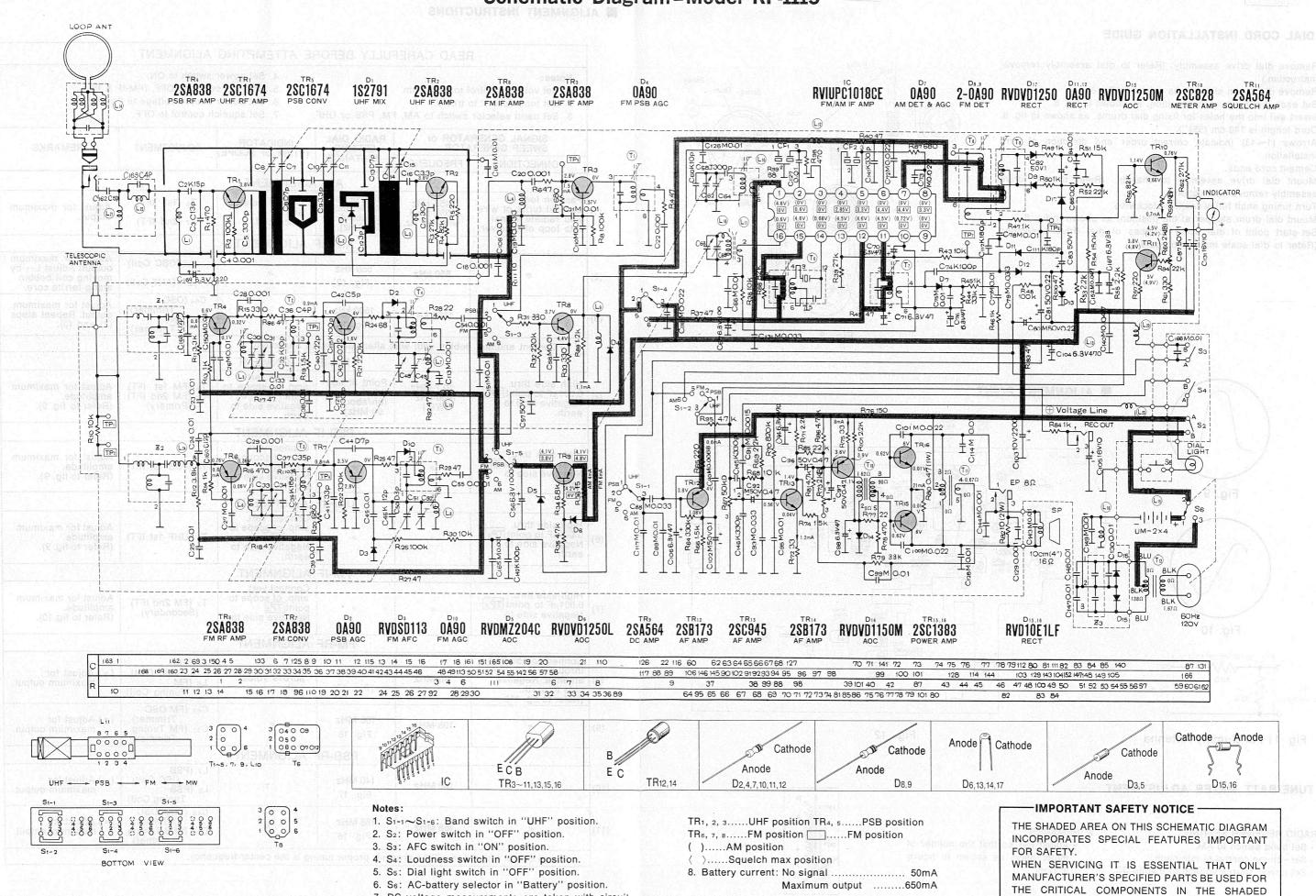
Circuit Board Wiring View-Model RF-1115



B2

C 1.08V

C 1.4V



7 DC voltage measurements are taken with circuit

D6 tester $10k\Omega/V$ from negative terminal of battery.

AREAS OF THE SCHEMATIC.

Fiche Nr. 1223

Nach DIN 19054 (International, NMA-Standart)
98 Nutzenseiten DIN A4 (49 Nutzenseiten DIN A3)

Datum

2.3. JULI 198

Inhalt

Model RF-1115 C

ndn-Eiche-Organisation-Form

Kopfzeile

Breite der Kopfzeile
Inhalt der Kopfzeile

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	A 1=	C 6=	E11=
	A 2=	C 7=	E12=
	A 3=	C 8=	E13=
	A 4=	C 9=	E14=
	A 5=	C10=	F 1=
	A 6=	C11=	F 2=
	A 7=	C12=	F 3=
	A 8=	C13=	F 4=
	A 9=	C14=	F 5=
	A10=	D 1=	F 6=
	A11=	D 2=	F 7=
	A12=	D 3=	F 8=
	A13=	D 4=	F 9=
	A14=	D 5=	F10=
	B 1=	D 6=	F11=
	B 2=	D 7=	F12=
	B 3=	D 8=	F13=
	B 4=	D 9=	F14=
	B 5=	D10=	G 1=
	B 6=	D11=	G 2=
	B 7=	D12=	G 3=
	B 8=	D13=	G 4=
	B ₁ 9=	D14=	G 5=
	B10=	E 1=	G 6=
	B11=	E 2=	G 7=
	B12=	E 3=	G 8=
	B13=	E 4=	G 9=
	B14=	E 5=	G10=
	C 1=	E 6=	G11=
	C 2=	E 7=	G12=
	C 3=	E 8=	G13=
	C 4=	E 9=	G14=
	C 5=	E10=	(4)

S/M. Order No. RD-7609-1305

MODEL RF-1115 (C).

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deutsch

MODELL RF-1115 (C).

S/M. Best. Nr. RD-7609-1305

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Dial cord installation guide.	A 3	Skalenbandeinstellung.
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